



The Society of Thoracic Surgeons

Adult Cardiac Surgery Database

Data Collection Form Version 2.9

7/2017

A. Administrative		
Participant ID: _____	Record ID: (software generated) _____	STS Cost Link: _____
Patient ID: (software generated) _____		
Patient participating in STS-related clinical trial: <input type="checkbox"/> None <input type="checkbox"/> Trial 1 <input type="checkbox"/> Trial 2 <input type="checkbox"/> Trial 3 <input type="checkbox"/> Trial 4 <input type="checkbox"/> Trial 5 <input type="checkbox"/> Trial 6 (if not "None" →) Clinical trial patient ID: _____		

B. Demographics		
Patient Last Name: _____	Patient First Name: _____	Patient Middle Name: _____
Date of Birth: ___/___/____ (mm/dd/yyyy)	Patient Age: _____	Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female
National Identification (Social Security) Number Known: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused (if Yes →) National ID Number: _____		
Medical Record Number: _____		
Street Address: _____ City: _____		
Region: _____	ZIP Code: _____	Country: _____
Is This Patient's Permanent Address: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
Is the Patient's Race Documented? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Pt. Declined to Disclose (if Yes →) Race : (Select all that apply →)		
White: <input type="checkbox"/> Yes <input type="checkbox"/> No	Am Indian/Alaskan: <input type="checkbox"/> Yes <input type="checkbox"/> No	Black/African American: <input type="checkbox"/> Yes <input type="checkbox"/> No
Asian: <input type="checkbox"/> Yes <input type="checkbox"/> No	Hawaiian/Pacific Islander: <input type="checkbox"/> Yes <input type="checkbox"/> No	Other: <input type="checkbox"/> Yes <input type="checkbox"/> No
Hispanic, Latino or Spanish Ethnicity: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Documented		

C. Hospitalization		
Hospital Name: _____ (If Not Missing →)	Hospital ZIP Code: _____	Hospital Region: _____
Hospital National Provider Identifier: _____	Hospital CMS Certification Number: _____	
Primary Payor: (Choose one)	(If Primary Payor <>None/Self ↓) Secondary Payor: (Choose one)	
<input type="checkbox"/> None/Self	<input type="checkbox"/> None	
<input type="checkbox"/> Medicare (includes commercially managed options)	<input type="checkbox"/> Medicare	
<input type="checkbox"/> Medicaid (includes commercially managed options)	<input type="checkbox"/> Medicaid	
<input type="checkbox"/> Military Health	<input type="checkbox"/> Military Health	
<input type="checkbox"/> Indian Health Service	<input type="checkbox"/> Indian Health Service	
<input type="checkbox"/> Correctional Facility	<input type="checkbox"/> Correctional Facility	
<input type="checkbox"/> State Specific Plan	<input type="checkbox"/> State Specific Plan	
<input type="checkbox"/> Other Government Insurance	<input type="checkbox"/> Other Government Insurance	
<input type="checkbox"/> Commercial Health Insurance	<input type="checkbox"/> Commercial Health Insurance	
<input type="checkbox"/> Health Maintenance Organization	<input type="checkbox"/> Health Maintenance Organization	
<input type="checkbox"/> Non -U.S. Plan	<input type="checkbox"/> Non -U.S. Plan	
<input type="checkbox"/> Charitable care/ Foundation Funding	<input type="checkbox"/> Charitable care/ Foundation Funding	
(if Medicare →) Primary Payor Medicare Fee for Service: <input type="checkbox"/> Yes <input type="checkbox"/> No	(if Medicare →) Secondary Payor Medicare Fee for Service: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Admit Date: ___/___/____ (mm/dd/yyyy)	Date of Surgery: ___/___/____ (mm/dd/yyyy)	
Admit Source: <input type="checkbox"/> Elective Admission <input type="checkbox"/> Emergency Department <input type="checkbox"/> Transfer in from another hospital/acute care facility <input type="checkbox"/> Other		
(If Transfer →) Other Hospital Performs Cardiac Surgery <input type="checkbox"/> Yes <input type="checkbox"/> No		

D. Risk Factors
<p style="margin: 0;">"Unknown" should only be selected if Patient / Family unable to provide history</p> <p style="margin: 0;">Did the patient have a laboratory confirmed diagnosis of Covid-19? <input type="checkbox"/> No (Harvest Code 10)</p> <p style="margin: 0; padding-left: 100px;"><input type="checkbox"/> Yes, prior to hospitalization for this surgery (Harvest Code 11)</p> <p style="margin: 0; padding-left: 150px;"><input type="checkbox"/> Yes, in hospital prior to surgery (Harvest Code 12)</p> <p style="margin: 0; padding-left: 150px;"><input type="checkbox"/> Yes, in hospital after surgery (Harvest Code 13)</p> <p style="margin: 0; padding-left: 150px;"><input type="checkbox"/> Yes, after discharge within 30 days of surgery (Harvest Code 14)</p> <p style="margin: 0;">Date of Positive Covid-19 Test (closest to OR date) ___/___/____ (mm/dd/yyyy)</p>

Height (cm): _____		Weight (kg): _____	
Family History of Premature Coronary Artery Disease: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
Diabetes: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →)			
Diabetes-Control: <input type="checkbox"/> None <input type="checkbox"/> Diet only <input type="checkbox"/> Oral <input type="checkbox"/> Insulin <input type="checkbox"/> Other SubQ <input type="checkbox"/> Other <input type="checkbox"/> Unknown			
Dyslipidemia: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Dialysis: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Hypertension: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
Endocarditis: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes→) Endocarditis Type: <input type="checkbox"/> Treated <input type="checkbox"/> Active			
(If Endocarditis Yes→) Endocarditis Culture: <input type="checkbox"/> Culture negative <input type="checkbox"/> Strep species <input type="checkbox"/> MRSA <input type="checkbox"/> MSSA <input type="checkbox"/> Coagulase negative staph			
<input type="checkbox"/> Enterococcus species <input type="checkbox"/> Gram negative species <input type="checkbox"/> Polymicrobial			
<input type="checkbox"/> Mycobacterium (chimera) <input type="checkbox"/> Fungal <input type="checkbox"/> Other <input type="checkbox"/> Unknown			
Tobacco use: <input type="checkbox"/> Never smoker <input type="checkbox"/> Smoker, current status (frequency) unknown			
<input type="checkbox"/> Current every day smoker <input type="checkbox"/> Former smoker			
<input type="checkbox"/> Current some day smoker <input type="checkbox"/> Smoking status unknown			
Lung Disease: <input type="checkbox"/> No <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Lung disease documented, severity unknown <input type="checkbox"/> Unknown			
(If Mild, Moderate or Severe→) Type: <input type="checkbox"/> Obstructive <input type="checkbox"/> Reactive <input type="checkbox"/> Interstitial Fibrosis <input type="checkbox"/> Restrictive <input type="checkbox"/> Other <input type="checkbox"/> Multiple <input type="checkbox"/> Not Documented			
Pulmonary Function Test Done: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If Yes →) FEV1 % Predicted: _____ DLCO Test Performed: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) DLCO % Predicted: _____			
Room Air ABG Performed: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Carbon Dioxide Level: _____ Oxygen Level : _____			
Home Oxygen: <input type="checkbox"/> Yes, PRN <input type="checkbox"/> Yes, oxygen dependent <input type="checkbox"/> No <input type="checkbox"/> Unknown		Inhaled Medication or Oral Bronchodilator Therapy: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Sleep Apnea: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Pneumonia: <input type="checkbox"/> Recent <input type="checkbox"/> Remote <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Illicit Drug Use: <input type="checkbox"/> Recent <input type="checkbox"/> Remote <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depression <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Alcohol Use: <input type="checkbox"/> <=1 drink/week <input type="checkbox"/> 2- 7 drinks/week <input type="checkbox"/> >=8 drinks/week <input type="checkbox"/> None <input type="checkbox"/> Unknown			
Liver Disease: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →)		Child –Pugh Class <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> Unknown	
Listed for liver transplant: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Status post liver transplant: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Immunocompromise Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Mediastinal Radiation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Cancer Within 5 Years: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Peripheral Artery Disease: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Thoracic Aorta Disease: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Syncope: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Unresponsive State: <input type="checkbox"/> Yes <input type="checkbox"/> No		Chest wall Deformity: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Cerebrovascular Disease: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
(If Yes→) Prior CVA: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Prior CVA-When: <input type="checkbox"/> <= 30 days <input type="checkbox"/> > 30 days			
CVD TIA: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
CVD Carotid stenosis: <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Both <input type="checkbox"/> None <input type="checkbox"/> Not Documented			
(If “Right” or “Both” →) Severity of stenosis on the right carotid artery: <input type="checkbox"/> 50-79% <input type="checkbox"/> 80 – 99% <input type="checkbox"/> 100% <input type="checkbox"/> Not documented			
(If “Left” or “Both” →) Severity of stenosis on the left carotid artery: <input type="checkbox"/> 50-79% <input type="checkbox"/> 80 – 99% <input type="checkbox"/> 100% <input type="checkbox"/> Not documented			
History of previous carotid artery surgery and/or stenting: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Enter available lab results below. Not all tests are expected or appropriate for all patients. Data Quality Report will flag missing Creatinine or if both Hemoglobin & Hematocrit are missing. if Liver disease is present, Creatinine, Bilirubin and INR are expected			
WBC Count: _____		Hemoglobin: _____	
Hematocrit: _____		Platelet Count: _____	
Last Creatinine Level: _____		Total Albumin: _____	
Total Bilirubin: _____		A1c Level: _____	
HIT Antibodies <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable		INR: _____	
MELD Score: _____ (System Calculation)		BNP _____	
Five Meter Walk Test Done: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Non-ambulatory patient			
(If Yes →) Time 1: _____ (seconds) Time 2: _____ (seconds) Time 3 : _____ (seconds)			
Six Minute Walk test done: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Total Distance : _____ feet			

E. Previous Cardiac Interventions					
Previous Cardiac Interventions: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
(If Yes →) Previous coronary artery bypass (CAB): <input type="checkbox"/> Yes <input type="checkbox"/> No					
Previous valve procedure: <input type="checkbox"/> Yes <input type="checkbox"/> No If PrValve Yes, Enter at least one previous valve procedure and up to 5 ↓					
	#1	#2	#3	#4	#5
No additional valve procedure(s)					
Aortic valve balloon valvotomy/valvuloplasty					
Aortic valve repair, surgical					
Aortic valve replacement, surgical					
Aortic valve replacement, transcatheter					
Mitral valve balloon valvotomy/valvuloplasty					
Mitral valve commissurotomy, surgical					
Mitral valve repair, percutaneous					
Mitral valve repair, surgical					
Mitral valve replacement, surgical					
Mitral valve replacement, transcatheter					

Tricuspid valve balloon valvotomy/valvuloplasty							
Tricuspid valve repair, percutaneous							
Tricuspid valve repair, surgical							
Tricuspid valve replacement, surgical							
Tricuspid valve replacement, transcatheter							
Tricuspid valvectomy							
Pulmonary valve balloon valvotomy/valvuloplasty							
Pulmonary valve repair, surgical							
Pulmonary valve replacement, surgical							
Pulmonary valve replacement, transcatheter							
Pulmonary valvectomy							
Other valve procedure							
Previous PCI: <input type="checkbox"/> Yes <input type="checkbox"/> No							
(If Yes →) PCI Performed Within This Episode Of Care: <input type="checkbox"/> Yes, at this facility <input type="checkbox"/> Yes, at some other acute care facility <input type="checkbox"/> No (If “Yes, at this facility” or “Yes, at some other acute care facility” ↓)							
Indication for Surgery: <input type="checkbox"/> PCI Complication <input type="checkbox"/> PCI Failure without Clinical Deterioration							
<input type="checkbox"/> PCI Failure with Clinical Deterioration <input type="checkbox"/> PCI/Surgery Staged (not STEMI)							
<input type="checkbox"/> PCI for STEMI, multivessel disease <input type="checkbox"/> Other							
PCI Stent: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Stent Type: <input type="checkbox"/> Bare metal <input type="checkbox"/> Drug-eluting <input type="checkbox"/> Bioresorbable <input type="checkbox"/> Multiple							
<input type="checkbox"/> Unknown							
PCI Interval: <input type="checkbox"/> ≤ 6 Hours <input type="checkbox"/> > 6 Hours							
Other Previous Cardiac Interventions: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, Enter at least one previous other cardiac procedure and up to 7 ↓)							
	#1	#2	#3	#4	#5	#6	#7
No additional interventions							
Ablation, catheter, atrial fibrillation							
Ablation, catheter, other or unknown							
Ablation, catheter, ventricular							
Ablation, surgical, atrial fibrillation							
Ablation, surgical, other or unknown							
Aneurysmectomy, LV							
Aortic procedure, arch							
Aortic procedure, ascending							
Aortic procedure, descending							
Aortic procedure, root							
Aortic procedure, thoracoabdominal							
Aortic Procedure, TEVAR							
Aortic root procedure, valve sparing							
Atrial appendage obliteration, Left, surgical							
Atrial appendage obliteration, Left, transcatheter							
Cardiac Tumor							
Cardioversion(s)							
Closure device, atrial septal defect							
Closure device, ventricular septal defect							
Congenital cardiac repair, surgical							
ECMO							
Implantable Cardioverter Defibrillator (ICD) with or without pacemaker							
Pacemaker							
Pericardial window/Pericardiocentesis							
Pericardiectomy							
Pulmonary Thromboembolectomy							
Total Artificial Heart (TAH)							
Transmyocardial Laser Revascularization (TMR)							
Transplant heart & lung							
Transplant, heart							
Transplant, lung(s)							
Ventricular Assist Device (VAD), BiVAD							
Ventricular Assist Device (VAD), left							
Ventricular Assist Device (VAD), right							
Other Cardiac Intervention (not listed)							

F. Preoperative Cardiac Status						
Prior Myocardial Infarction: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes ↓)						
MI When: <input type="checkbox"/> ≤6 Hrs. <input type="checkbox"/> >6 Hrs. but <24 Hrs. <input type="checkbox"/> 1 to 7 Days <input type="checkbox"/> 8 to 21 Days <input type="checkbox"/> >21 Days						
Cardiac Presentation/Symptoms: (Choose <u>one</u> from the list below for each column ↓)						
	At time of this admission:			At time of surgery:		
No Symptoms						
Stable Angina						
Unstable Angina						
Non-ST Elevation MI (Non-STEMI)						
ST Elevation MI (STEMI)						
Angina Equivalent						
Other						
Heart Failure: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Timing: <input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Both Type: <input type="checkbox"/> Systolic <input type="checkbox"/> Diastolic <input type="checkbox"/> Both <input type="checkbox"/> Unavailable						
Classification-NYHA: <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Class IV <input type="checkbox"/> Not Documented						
Cardiogenic Shock : <input type="checkbox"/> Yes, at the time of the procedure <input type="checkbox"/> Yes, not at the time of the procedure but within prior 24 hours <input type="checkbox"/> No						
Resuscitation: <input type="checkbox"/> Yes - Within 1 hour of the start of the procedure <input type="checkbox"/> Yes - More than 1 hour but less than 24 hours of the start of the procedure <input type="checkbox"/> No						
Arrhythmia: <input type="checkbox"/> Yes <input type="checkbox"/> No						
(If Arrhythmia = Yes →) Permanently Paced Rhythm: <input type="checkbox"/> Yes <input type="checkbox"/> No						
(If Yes , choose one response below for each rhythm →)		VTach/VFib	Sick Sinus	AFlutter	AFibrillation	Second Degree Heart Block
None						
Remote (> 30 days preop)						
Recent (≤ 30 days preop)						
(If AFibrillation not 'None' →)		Atrial Fibrillation Type: <input type="checkbox"/> Paroxysmal <input type="checkbox"/> Persistent <input type="checkbox"/> Longstanding Persistent <input type="checkbox"/> Permanent				

G. Preoperative Medications			
Medication	Timeframe	Administration	
ACE or ARB	Within 48 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown	
Amiodarone	Prior to surgery	<input type="checkbox"/> Yes, on home therapy <input type="checkbox"/> Yes, therapy started this admission <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Antianginal	Beta Blocker	Within 24 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Beta Blocker	On therapy for ≥ 2 weeks prior to surgery	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown
	Calcium Channel Blocker	On therapy for ≥ 2 weeks prior to surgery	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown
	Long-acting Nitrate	On therapy for ≥ 2 weeks prior to surgery	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown
	Nitrates, intravenous	Within 24 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Other Antianginal	On therapy for ≥ 2 weeks prior to surgery	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown
Antiplatelet	ADP Inhibitor (includes P2Y12)	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown (If Yes →) ADP Inhibitors Discontinuation: _____ (# days prior to surgery)
	Aspirin	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown (If Yes →) Aspirin Discontinuation: _____ (# days prior to surgery) Aspirin one time dose: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Glycoprotein IIb/IIIa	Within 24 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No
Anticoagulant	Anticoagulants (Intravenous/ SubQ)	Within 48 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Medication: <input type="checkbox"/> Heparin (Unfractionated) <input type="checkbox"/> Heparin (Low Molecular) <input type="checkbox"/> Both <input type="checkbox"/> Other
	Warfarin (Coumadin)	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Coumadin Discontinuation: _____ (# days prior to surgery)
	Factor Xa inhibitors	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Factor Xa Discontinuation: _____ (# days prior to surgery)
	Novel Oral Anticoagulant	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) NOAC Discontinuation: _____ (# days prior to surgery)
	Thrombin Inhibitors	Within 5 days	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Thrombin Inhibitor Discontinuation: _____ (# days prior to surgery)
	Thrombolytics	Within 48 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No
Inotropic, intravenous	Within 48 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Lipid lowering	Within 24 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown (If Yes →) Medication Type : <input type="checkbox"/> Statin <input type="checkbox"/> Statin + Other <input type="checkbox"/> Non-statin/Other	
Steroids	Within 24 hours	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated <input type="checkbox"/> Unknown	

H. Hemodynamics/Cath/Echo

Cardiac Catheterization Performed : Yes No (If Yes→) Cardiac Catheterization Date: ___/___/___

Coronary Anatomy/Disease known: Yes No (If Yes↓)

Dominance: Left Right Co-dominant Not Documented

Source(s) used to quantify stenosis : Angiogram CT IVUS Progress/OP Note Other Multiple

Number Diseased Vessels (If one, two or three vessel disease ↓) None One Two Three

Each Column with a "yes" response below must have documentation on at least one vessel

Coronary	Native Artery % Stenosis Known: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes↓)	Graft(s) Graft(s) Present: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes↓)	Stent(s) Stent(s) Present: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes↓)	Fractional Flow Reserve (FFR) performed: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes↓)	Instantaneous wave-free ratio (iFR) performed: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes↓)
Left Main	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Proximal LAD	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Mid LAD	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Distal LAD	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Diagonal 1	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Diagonal 2	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Diagonal 3	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Circumflex	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Obtuse Marginal 1	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Obtuse Marginal 2	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Obtuse Marginal 3	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Ramus	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
RCA	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Acute Marginal (AM)	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____

Posterior Descending (PDA)	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____
Posterolateral (PLB)	_____ %	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> 100% occlusion <input type="checkbox"/> Not Documented	<input type="checkbox"/> Patent <input type="checkbox"/> Stenosis >=50% <input type="checkbox"/> Not Documented	_____	_____

Syntax Score Known: Yes No (If Yes→) Syntax Score: _____

Stress Test: Yes No (If Yes →) Result: Negative (Normal) Positive (Abnormal) Not Documented

Ejection Fraction Done: Yes No (If Yes→) Ejection Fraction: _____ (%)

Dimensions Available: Yes No (If Yes→) LV End-Systolic Dimension: _____ (mm) LV End-Diastolic Dimension: _____ (mm)

PA Systolic Pressure Measured: Yes No (If Yes→) PA Systolic Pressure: _____ mmHg

Aortic Valve
Aortic Insufficiency: None Trivial/Trace Mild Moderate Severe Not Documented (If not "None" ↓)
Eccentric Jet: Yes No Not Documented
Aortic Valve Disease: Yes No
(If Yes ↓→) Aortic Stenosis: Yes No (If Yes→) Hemodynamic/Echo data available: Yes No (If Yes ↓)
Smallest Aortic Valve Area: _____ cm²
Highest Mean Gradient: _____ mmHg Maximum Aortic jet velocity (V_{max}): _____ m/s

AV Disease Etiology Choose PRIMARY Etiology (one):

<input type="checkbox"/> Bicuspid valve disease	<input type="checkbox"/> Primary Aortic Disease, Hypertensive Aneurysm
<input type="checkbox"/> Congenital (other than bicuspid)	<input type="checkbox"/> Primary Aortic Disease, Idiopathic Root Dilatation
<input type="checkbox"/> Degenerative- Calcified	<input type="checkbox"/> Primary Aortic Disease, Inflammatory
<input type="checkbox"/> Degenerative- Leaflet prolapse with or without annular dilation	<input type="checkbox"/> Primary Aortic Disease, Loeys-Dietz Syndrome
<input type="checkbox"/> Degenerative- Pure annular dilatation without leaflet prolapse	<input type="checkbox"/> Primary Aortic Disease, Marfan Syndrome
<input type="checkbox"/> Degenerative- Commissural rupture	<input type="checkbox"/> Primary Aortic Disease, Other Connective tissue disorder
<input type="checkbox"/> Degenerative- Extensive fenestration	<input type="checkbox"/> Reoperation-Failure of previous AV repair or replacement
<input type="checkbox"/> Degenerative- Leaflet perforation/hole	<input type="checkbox"/> Rheumatic
<input type="checkbox"/> Endocarditis with root abscess	<input type="checkbox"/> Supravalvular Aortic Stenosis
<input type="checkbox"/> Endocarditis without root abscess	<input type="checkbox"/> Trauma
<input type="checkbox"/> LV Outflow Tract Pathology, HOCM	<input type="checkbox"/> Tumor, Carcinoid
<input type="checkbox"/> LV Outflow Tract Pathology, Sub-aortic membrane	<input type="checkbox"/> Tumor, Myxoma
<input type="checkbox"/> LV Outflow Tract Pathology, Sub-aortic Tunnel	<input type="checkbox"/> Tumor, Papillary Fibroelastoma
<input type="checkbox"/> LV Outflow Tract Pathology, Other	<input type="checkbox"/> Tumor, Other
<input type="checkbox"/> Primary Aortic Disease, Aortic Dissection	<input type="checkbox"/> Mixed Etiology
<input type="checkbox"/> Primary Aortic Disease, Atherosclerotic Aneurysm	<input type="checkbox"/> Not Documented
<input type="checkbox"/> Primary Aortic Disease, Ehler-Danlos Syndrome	

(If Bicuspid valve disease→) Sievers Class: 0 No raphe 1 one raphe 2 two raphe Not Documented

Mitral Valve
Mitral Insufficiency: None Trivial/Trace Mild Moderate Severe Not Documented
(If not "None" ↓)
Eccentric Jet: Yes No Not Documented

Mitral Valve Disease: Yes No
(If Yes ↓→) Mitral Stenosis: Yes No (If Yes→) Hemodynamic/ Echo data available: Yes No (If Yes ↓)

Smallest Valve Area: _____ cm² Highest Mean Gradient: _____ mmHg

MV Disease Etiology Choose PRIMARY Etiology (one):

<input type="checkbox"/> Myxomatous degeneration/prolapse	<input type="checkbox"/> Tumor, Papillary fibroelastoma
<input type="checkbox"/> Rheumatic	<input type="checkbox"/> Tumor, Other
<input type="checkbox"/> Ischemic- acute, post infarction (MI ≤ 21 days)	<input type="checkbox"/> Carcinoid
<input type="checkbox"/> Ischemic- chronic (MI > 21 days)	<input type="checkbox"/> Trauma
<input type="checkbox"/> Non-ischemic Cardiomyopathy	<input type="checkbox"/> Congenital
<input type="checkbox"/> Endocarditis	<input type="checkbox"/> Pure annular dilatation
<input type="checkbox"/> Hypertrophic Obstructive Cardiomyopathy (HOCM)	<input type="checkbox"/> Reoperation-Failure of previous MV repair or replacement
<input type="checkbox"/> Tumor, Carcinoid	<input type="checkbox"/> Mixed Etiology
<input type="checkbox"/> Tumor, Myxoma	<input type="checkbox"/> Not Documented

MV Lesion Choose PRIMARY Lesion (one):

<input type="checkbox"/> Leaflet prolapse, posterior	<input type="checkbox"/> Papillary muscle elongation
<input type="checkbox"/> Leaflet prolapse, bileaflet	<input type="checkbox"/> Papillary muscle rupture
<input type="checkbox"/> Leaflet prolapse, anterior	<input type="checkbox"/> Leaflet thickening
<input type="checkbox"/> Leaflet prolapse, unspecified	<input type="checkbox"/> Leaflet retraction
<input type="checkbox"/> Elongated/ruptured chord(s)/Flail	<input type="checkbox"/> Chordal tethering
<input type="checkbox"/> Annular dilatation	<input type="checkbox"/> Chordal thickening/retraction/fusion

<input type="checkbox"/> Leaflet calcification	<input type="checkbox"/> Commissural fusion
<input type="checkbox"/> Leaflet perforation/hole	<input type="checkbox"/> Mixed lesion
<input type="checkbox"/> Mitral annular calcification	<input type="checkbox"/> Not Documented

Tricuspid Valve
Tricuspid Insufficiency: None Trivial/Trace Mild Moderate Severe Not Documented
Tricuspid Annular Echo Measurement Available: Yes No (If Yes→) Tricuspid Diameter: _____ cm
Tricuspid Valve Disease: Yes No (If Yes→) Tricuspid Stenosis: Yes No
(If Tricuspid Disease Yes →) TV Etiology: Choose PRIMARY Etiology (one):

<input type="checkbox"/> Functional/ secondary	<input type="checkbox"/> Rheumatic
<input type="checkbox"/> Endocarditis	<input type="checkbox"/> Tumor
<input type="checkbox"/> Carcinoid	<input type="checkbox"/> Trauma
<input type="checkbox"/> Congenital	<input type="checkbox"/> Reoperation-Failure of previous TV repair or replacement
<input type="checkbox"/> Degenerative	<input type="checkbox"/> Mixed etiology
<input type="checkbox"/> Pacing wire/catheter induced dysfunction	<input type="checkbox"/> Not Documented

Pulmonic Valve
Pulmonic Insufficiency: None Trivial/Trace Mild Moderate Severe Not Documented
Pulmonic Valve Disease: Yes No
(If Yes →) RVEDD Known: Yes No (If Yes →) RVEDD Indexed to BSA: _____ cm²
(If Yes →) Pulmonic Stenosis: Yes No (If Yes→) Hemodynamic /Echo data available: Yes No (If Yes ↓)
Highest Mean Gradient : _____ mmHg
(If Yes→) Etiology: (choose one)

<input type="checkbox"/> Acquired	<input type="checkbox"/> Reoperation-Failure of previous PV repair or replacement
<input type="checkbox"/> Congenital, s/p Tetralogy of Fallot (TOF) repair	<input type="checkbox"/> Mixed etiology
<input type="checkbox"/> Congenital, no prior Tetralogy of Fallot (TOF) repair	<input type="checkbox"/> Not Documented

I. Operative			
Surgeon: _____		Surgeon NPI: _____	
Taxpayer Identification Number: _____			
Indicate whether the STS Risk Calculator score was discussed with the patient/family prior to surgery.			
<input type="checkbox"/> Yes, STS risk calculator score was calculated and discussed with the patient/family prior to surgery as documented in the medical record <input type="checkbox"/> No, STS risk calculator score was available for scheduled procedure but not discussed with the patient/family prior to surgery or the discussion was not documented <input type="checkbox"/> NA, Not applicable (emergent or salvage case, or no risk model available for this procedure)			
Incidence:			
<input type="checkbox"/> First cardiovascular surgery	<input type="checkbox"/> First re-op cardiovascular surgery	<input type="checkbox"/> Third re-op cardiovascular surgery	<input type="checkbox"/> Fourth or more re-op cardiovascular surgery
<input type="checkbox"/> Second re-op cardiovascular surgery	<input type="checkbox"/> NA- not a cardiovascular surgery		
Status: <input type="checkbox"/> Elective <input type="checkbox"/> Urgent <input type="checkbox"/> Emergent <input type="checkbox"/> Emergent Salvage			
(If Urgent or Emergent choose the most pressing reason↓)			
Urgent / Emergent reason:			
<input type="checkbox"/> AMI	<input type="checkbox"/> PCI Incomplete without clinical deterioration	<input type="checkbox"/> PCI or attempted PCI with Clinical Deterioration	<input type="checkbox"/> Pulmonary Edema
<input type="checkbox"/> Anatomy	<input type="checkbox"/> Aortic Aneurysm	<input type="checkbox"/> Pulmonary Embolus	<input type="checkbox"/> Rest Angina
<input type="checkbox"/> Aortic Dissection	<input type="checkbox"/> CHF	<input type="checkbox"/> Shock, Circulatory Support	<input type="checkbox"/> Shock, No Circulatory Support
<input type="checkbox"/> Device Failure	<input type="checkbox"/> Diagnostic/Interventional Procedure Complication	<input type="checkbox"/> Syncope	<input type="checkbox"/> Transplant
<input type="checkbox"/> Endocarditis	<input type="checkbox"/> Failed Transcatheter Valve Therapy , acute annular disruption	<input type="checkbox"/> Trauma	<input type="checkbox"/> USA
<input type="checkbox"/> Failed Transcatheter Valve Therapy , acute device malposition	<input type="checkbox"/> Failed Transcatheter Valve Therapy , subacute device dysfunction	<input type="checkbox"/> Valve Dysfunction	<input type="checkbox"/> Worsening CP
<input type="checkbox"/> IABP	<input type="checkbox"/> IABP	<input type="checkbox"/> Other	
<input type="checkbox"/> Infected Device	<input type="checkbox"/> Intracardiac mass or thrombus		
<input type="checkbox"/> Ongoing Ischemia			
Was case previously attempted during this admission, but canceled: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If Yes→) Date of previous case: ____/____/____ (mm/dd/yyyy)			
Timing of previous case: <input type="checkbox"/> Prior to induction of anesthesia <input type="checkbox"/> After induction, prior to incision <input type="checkbox"/> After incision made			
Reason previous case was canceled: <input type="checkbox"/> Anesthesiology event <input type="checkbox"/> Cardiac arrest <input type="checkbox"/> Equipment/supply issue <input type="checkbox"/> Access Issue			
<input type="checkbox"/> Unanticipated tumor <input type="checkbox"/> Donor Organ Unacceptable <input type="checkbox"/> Abnormal Labs <input type="checkbox"/> Other			
Planned previous procedure: CABG <input type="checkbox"/> Yes <input type="checkbox"/> No Valve, Surgical <input type="checkbox"/> Yes <input type="checkbox"/> No			
Mechanical Assist Device <input type="checkbox"/> Yes <input type="checkbox"/> No Valve, Transcatheter <input type="checkbox"/> Yes <input type="checkbox"/> No			

Other Non-cardiac	<input type="checkbox"/> Yes <input type="checkbox"/> No	Other Cardiac	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the current procedure canceled: <input type="checkbox"/> Yes <input type="checkbox"/> No				
(If Yes→) Canceled Timing: <input type="checkbox"/> Prior to induction of anesthesia <input type="checkbox"/> After induction, prior to incision <input type="checkbox"/> After incision made				
Canceled Reason: <input type="checkbox"/> Anesthesiology event <input type="checkbox"/> Cardiac arrest <input type="checkbox"/> Equipment/supply issue <input type="checkbox"/> Access Issue <input type="checkbox"/> Unanticipated tumor <input type="checkbox"/> Donor Organ Unacceptable <input type="checkbox"/> Abnormal Labs <input type="checkbox"/> Other				
Planned procedure: CABG <input type="checkbox"/> Yes <input type="checkbox"/> No Valve, Surgical <input type="checkbox"/> Yes <input type="checkbox"/> No Mechanical Assist Device <input type="checkbox"/> Yes <input type="checkbox"/> No Valve, Transcatheter <input type="checkbox"/> Yes <input type="checkbox"/> No Other Non-cardiac <input type="checkbox"/> Yes <input type="checkbox"/> No Other Cardiac <input type="checkbox"/> Yes <input type="checkbox"/> No				
Initial Operative Approach: <input type="checkbox"/> Full conventional sternotomy <input type="checkbox"/> Left Thoracotomy <input type="checkbox"/> Thoracoabdominal Incision <input type="checkbox"/> Partial sternotomy <input type="checkbox"/> Right Thoracotomy <input type="checkbox"/> Percutaneous <input type="checkbox"/> Transverse sternotomy <input type="checkbox"/> Bilateral Thoracotomy <input type="checkbox"/> Port Access <input type="checkbox"/> Right or left parasternal incision <input type="checkbox"/> Limited (mini) Thoracotomy , right <input type="checkbox"/> Other <input type="checkbox"/> Sub-xiphoid <input type="checkbox"/> Limited (mini) Thoracotomy , left <input type="checkbox"/> None (canceled case) <input type="checkbox"/> Sub-Costal <input type="checkbox"/> Limited (mini) Thoracotomy , bilateral				
Approach converted during procedure: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned <input type="checkbox"/> No				
Robot Used: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) <input type="checkbox"/> Used for entire operation <input type="checkbox"/> Used for part of the operation				
Coronary Artery Bypass: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No (If "Yes" complete Section J)				
Valve Surgery: <input type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes" complete Section K) (If Yes →) Did the surgeon provide input for valve surgery data abstraction? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Aorta procedure Performed: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No (If "Yes" complete Section M 2) (If Yes →) Did the surgeon provide input for aortic surgery data abstraction? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Other Cardiac Procedure: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No (If "Yes" complete Section M)				
Other Cardiac Procedure, AFib: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) (Complete Section M 1) (If Yes →) Did the surgeon provide input for AFib data abstraction? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Other Non-Cardiac Procedure: <input type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes" complete Section N)				
Enter up to 10 CPT-1 Codes pertaining to the surgery for which the data collection form was initiated:				
1. _____	2. _____	3. _____	4. _____	5. _____
6. _____	7. _____	8. _____	9. _____	10. _____
OR Entry Date And Time: ____/____/____ : ____ mm/dd/yyyy hh:mm - 24 hr clock)				
OR Exit Date And Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
General Anesthesia: <input type="checkbox"/> Yes <input type="checkbox"/> No (If General Anesthesia No→) Procedural Sedation : <input type="checkbox"/> Yes <input type="checkbox"/> No				
(If General Anesthesia Yes →) Intubation: <input type="checkbox"/> Yes, prior to entering OR for this procedure <input type="checkbox"/> Yes, in OR for this procedure <input type="checkbox"/> No (If Intubation Yes →) Intubation Date and Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
Initial Extubation Date and Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
Skin Incision Start Date and Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
Skin Incision Stop Date and Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
Anesthesia End Date and Time: ____/____/____ : ____ (mm/dd/yyyy hh:mm - 24 hr clock)				
Appropriate Antibiotic Selection: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exclusion		Appropriate Antibiotic Administration Timing: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exclusion		Appropriate Antibiotic Discontinuation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exclusion
Additional intraoperative prophylactic antibiotic dose given : <input type="checkbox"/> Yes <input type="checkbox"/> No				
Temperature Measured: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes→) Lowest Temperature (°C): _____ Temperature Source: <input type="checkbox"/> Esophageal <input type="checkbox"/> CPB venous return <input type="checkbox"/> Bladder <input type="checkbox"/> Nasopharyngeal <input type="checkbox"/> Tympanic <input type="checkbox"/> Rectal <input type="checkbox"/> Other <input type="checkbox"/> Unknown				
Lowest Intra-op Hemoglobin : _____		Lowest Intra-op Hematocrit : _____		Highest Intra-op Glucose: _____
CPB Utilization: <input type="checkbox"/> None <input type="checkbox"/> Combination (If Combination→) Combination Plan: <input type="checkbox"/> Planned <input type="checkbox"/> Unplanned (If Unplanned↓) Unplanned Reason: <input type="checkbox"/> Exposure/visualization <input type="checkbox"/> Bleeding <input type="checkbox"/> Inadequate size/ diffuse disease of distal vessel <input type="checkbox"/> Hemodynamic instability(hypotension/arrhythmias) <input type="checkbox"/> Conduit quality and/or trauma <input type="checkbox"/> Other				
<input type="checkbox"/> Full (If "Combination" or "Full"↓) Arterial Cannulation Insertion Site: (Select all that apply↓)				
Aortic <input type="checkbox"/> Yes <input type="checkbox"/> No		Axillary <input type="checkbox"/> Yes <input type="checkbox"/> No		Other <input type="checkbox"/> Yes <input type="checkbox"/> No
Femoral <input type="checkbox"/> Yes <input type="checkbox"/> No		Innominate <input type="checkbox"/> Yes <input type="checkbox"/> No		
Venous Cannulation Insertion Site: (Select all that apply↓)				
Femoral <input type="checkbox"/> Yes <input type="checkbox"/> No		Pulmonary Vein <input type="checkbox"/> Yes <input type="checkbox"/> No		
Jugular <input type="checkbox"/> Yes <input type="checkbox"/> No		Caval/Bicaval <input type="checkbox"/> Yes <input type="checkbox"/> No		
Rt. Atrial <input type="checkbox"/> Yes <input type="checkbox"/> No		Other <input type="checkbox"/> Yes <input type="checkbox"/> No		
Lt. Atrial <input type="checkbox"/> Yes <input type="checkbox"/> No				

Cardiopulmonary Bypass Time (minutes): _____

Circulatory Arrest: Yes No (If Yes ↓)
 Circulatory Arrest Without Cerebral Perfusion Time: _____ (min)
 Circulatory Arrest With Cerebral Perfusion: Yes No
 (If Yes →) Cerebral Perfusion Time: _____ (min)
 Cerebral Perfusion Type: Antegrade Retrograde Both antegrade and retrograde
 Total Circulatory Arrest Time: _____ (System Calculation)

Aortic Occlusion: None – beating heart Aortic Cross clamp
 None – fibrillating heart Balloon Occlusion
 (If “Aortic cross clamp” or “Balloon occlusion” →): Cross Clamp Time: _____ (min)

Cardioplegia Delivery: None Antegrade Retrograde Both
 (If “Antegrade”, “Retrograde” or “Both” →) Type of cardioplegia used: Blood Crystalloid Both Other

Cerebral Oximetry Used: Yes No

Diffuse Aortic Calcification (Porcelain Aorta) : Yes No

Assessment of Ascending Aorta/Arch for atheroma/plaque: Yes No Not Reported (If Yes ↓)
 Assessment method: TEE Epi-aortic ultrasound CT scan Other diagnostic modality

Assessment of Aorta Plaque: Normal Aorta/No or minimal plaque Extensive intimal thickening
 Protruding Atheroma < 5 mm Protruding Atheroma >= 5 mm
 Mobile plaques Not documented

Aortic Condition Altered Plan: Yes No

Intraop Blood Products Refused: Yes No
 (If No →) Intraop Blood Products: Yes No
 (If Yes →) Red Blood Cell Units: _____ Platelet Units: _____
 Fresh Frozen Plasma Units: _____ Cryoprecipitate Units: _____

Intraop Clotting Factors : Yes, Factor VIIa Yes, FEIBA Yes, Composite No Intraop Prothrombin Complex concentrate: Yes No

Intraop Antifibrinolytic Medications: Epsilon Amino-Caproic Acid: Yes No Tranexamic Acid: Yes No

Intraoperative TEE Performed post procedure: Yes No (If Yes ↓)
 Highest level aortic insufficiency found:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Mean Aortic Gradient: _____
 Aortic Paravalvular leak:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Highest level Mitral insufficiency found:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Mean Mitral Gradient: _____
 Mitral Paravalvular leak:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Highest level Tricuspid insufficiency found:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Mean Tricuspid Gradient: _____
 Tricuspid Paravalvular leak:
 None Trivial/Trace Mild Moderate Severe Not Documented

Ejection Fraction Measured post procedure: Yes No (If Yes →) Ejection Fraction: _____

Surgery followed by a planned PCI: Yes No

J. Coronary Bypass

(If Coronary Artery Bypass = Yes ↓)

Internal Mammary Artery (arteries) used: Yes No (If yes →) Total Number of Distal Anastomoses with IMA conduits: _____
 (If no →) Reason for no IMA Subclavian stenosis Previous mediastinal radiation No (bypassable) LAD disease
 Previous cardiac or thoracic surgery Emergent or salvage procedure Other

(If yes →) Left IMA: Yes, pedicle Yes, skeletonized No
 (If not no →) LIMA Harvest technique: Direct Vision (open) Thoracoscopy Combination Robotic Assist
 Right IMA: Yes, pedicle Yes, skeletonized No
 (If not no →) RIMA Harvest technique: Direct Vision (open) Thoracoscopy Combination Robotic Assist

Radial Artery (arteries) used: Yes No (If yes →) Total Number of Distal Anastomoses with radial artery conduits: _____
 (If yes →) Radial Artery Harvest Technique: Endoscopic Direct Vision (open) Both
 Radial Artery Harvest and Prep Time: _____ (minutes)

Venous Conduit(s) used: Yes No (If yes →) Total Number of Distal Anastomoses with venous conduits: _____
 (If yes →) Vein Harvest Technique: Endoscopic Direct Vision (open) Both Cryopreserved
 Vein Harvest and Prep Time: _____ (minutes)

Number of Distal Anastomoses : with other arterial conduits: _____ with arterial- venous composite conduits: _____
 with venous -arterial composite conduits: _____ with arterial- arterial composite conduits: _____

(Note: the total number of distals above should equal the number of columns in the CABG Grid)

Proximal Technique: Single Cross Clamp Partial Occlusion Clamp Anastomotic Assist Device None (isolated in situ mammary)

CABG NUMBER (one column per distal insertion)	1	2	3	4	5	6	7	8	9	10
GRAFT Yes	NA									

	No																			
DISTAL INSERTION SITE	Left Main																			
	Proximal LAD																			
	Mid LAD																			
	Distal LAD																			
	Diagonal 1																			
	Diagonal 2																			
	Diagonal 3																			
	Circumflex																			
	Obtuse Marginal 1																			
	Obtuse Marginal 2																			
	Obtuse Marginal 3																			
	Ramus																			
	RCA																			
	Acute Marginal (AM)																			
	Posterior Descending (PDA)																			
	Posterolateral (PLB)																			
Other																				
PROXIMAL SITE	In Situ Mammary																			
	Ascending aorta																			
	Descending aorta																			
	Subclavian artery																			
	Innominate artery																			
	T-graft off SVG																			
	T-graft off Radial																			
	T-graft off LIMA																			
	T-graft off RIMA																			
	Natural Y vein graft																			
	Other																			
CONDUIT	Vein graft																			
	In Situ LIMA																			
	In Situ RIMA																			
	Free IMA																			
	Composite artery-vein																			
	Radial artery																			
	Other arteries, homograft																			
	Synthetic graft																			
DISTAL POSITION	End to Side																			
	Sequential (side to side)																			
ENDARTERECTOMY	Yes																			
	No																			
VEIN PATCH ANGIOPLASTY	Yes																			
	No																			

K. Valve Surgery (If Valve Surgery=Yes ↓)

Valve Prosthesis Explant: Yes No (If Yes ↓)

Explant Position: Aortic Mitral Tricuspid Pulmonic

Explant Type: Mechanical Valve Bioprosthetic Valve Homograft Annuloplasty Device
 Leaflet Clip Transcatheter Device Other Unknown

Explant Etiology: Endocarditis Incompetence Prosthetic Deterioration Thrombosis
 Failed Repair Pannus Sizing/Positioning issue Other
 Hemolysis Paravalvular leak Stenosis Unknown

Explant Device known: Yes No (If Yes→) Explant model#: _____ Unique Device Identifier (UDI): _____

Second Valve Prosthesis Explant: Yes No (If Yes ↓)

Explant Position: Aortic Mitral Tricuspid Pulmonic

Explant Type: Mechanical Valve Bioprosthetic Valve Homograft Annuloplasty Device
 Leaflet Clip Transcatheter Device Other Unknown

Explant Etiology: Endocarditis Incompetence Prosthetic Deterioration Thrombosis
 Failed Repair Pannus Formation Sizing/Positioning issue Other
 Hemolysis Paravalvular leak Stenosis Unknown

Explant Device known: Yes No (If Yes→) Explant model#: _____ Unique Device Identifier (UDI): _____

Aortic Valve Procedure Performed: Yes, planned Yes, unplanned due to surgical complication Yes, unplanned due to unsuspected disease or anatomy No (If Yes ↓)

Procedure Performed:

Replacement (If Replacement↓)

Transcatheter Valve Replacement: Yes No (If Yes ↓)

Approach: Transapical Transaxillary Transfemoral Transaortic Subclavian Other

Surgical valve Replacement: Yes No

(If Yes →) Device type: Mechanical Bioprosthetic Surgeon fashioned pericardium (Ozaki) Other

(If Bioprosthetic→) Valve type: Stented Stentless subcoronary valve only Sutureless/rapid deployment

Repair/Reconstruction (If Repair/Reconstruction ↓)

Repair Type (Select all that apply)

Commissural suture annuloplasty	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ring annuloplasty	<input type="checkbox"/> Yes <input type="checkbox"/> No
External Suture Annuloplasty	<input type="checkbox"/> Yes <input type="checkbox"/> No	(If Yes →) Type:	<input type="checkbox"/> External Ring <input type="checkbox"/> Internal Ring
Leaflet plication	<input type="checkbox"/> Yes <input type="checkbox"/> No	Leaflet resection suture	<input type="checkbox"/> Yes <input type="checkbox"/> No
Nodular Release	<input type="checkbox"/> Yes <input type="checkbox"/> No	Leaflet Shaving	<input type="checkbox"/> Yes <input type="checkbox"/> No
Leaflet free edge reinforcement	<input type="checkbox"/> Yes <input type="checkbox"/> No	Leaflet pericardial patch	<input type="checkbox"/> Yes <input type="checkbox"/> No
Leaflet commissural resuspension suture	<input type="checkbox"/> Yes <input type="checkbox"/> No	Leaflet debridement	<input type="checkbox"/> Yes <input type="checkbox"/> No
Division of fused leaflet raphe	<input type="checkbox"/> Yes <input type="checkbox"/> No	Repair of periprosthetic leak	<input type="checkbox"/> Yes <input type="checkbox"/> No

Aortic annular enlargement with patch Yes No (If Yes →) Technique: Nicks-Nunez Manougian Konno Other Unknown

Root Procedure Yes No (If Yes ↓) (For AV surgery involving the aortic root→ also complete section M-2)

Root Replacement with coronary Ostial Reimplantation (Bentall) Yes No

Type:

(If Yes →) Mechanical Bioprosthetic
 Autograft with native pulmonary valve (Ross procedure) Homograft root replacement

(If Bioprosthetic→) Stented valve composite graft Stentless biologic full root

Valve Sparing root operation: Yes No (If Yes ↓)

Resuspension AV without replacement of ascending aorta
 Resuspension AV with replacement of ascending aorta
 Valve sparing root reimplantation (David)
 Valve sparing root remodeling (Yacoub)
 Valve sparing root reconstruction (Florida Sleeve)

Major root reconstruction/ debridement with or without pericardial patch Yes No

Patch used: Yes No (If Yes →) Patch type: Synthetic Bioprosthetic Autologous

Aortic Valve Implant: Yes No (If Yes ↓)

Implant Model Number: _____ Implant Size: _____

Unique Device identifier (UDI): _____

Mitral Valve Procedure Performed: Yes, planned Yes, unplanned due to surgical complication Yes, unplanned due to unsuspected disease or anatomy No (If Yes ↓)

Procedure Performed:

Repair (If Repair↓)

Repair Approach: Transcatheter Surgical

If Surgical (Select all that apply↓)

Annuloplasty: Yes No

Leaflet resection: Yes No (If Yes↓)

Resection Type: Triangular Quadrangular Other

Anterior resection: Yes No

(If Yes→) Location documented: Yes No (If Yes↓)

Anterior leaflet resection location: A1 Yes No A2 Yes No A3 Yes No

Resection Posterior Resection: Yes No

Location(s): (If Yes→) Location documented: Yes No (If Yes↓)

Posterior leaflet resection location: P1 Yes No P2 Yes No P3 Yes No

Commissure Resection: Yes No (If Yes↓)

Commissural resection location: Medial (C2) Lateral (C1) Both Not Documented

Neochords (PTFE): Yes No (If Yes↓)

Anterior Neochords: Yes No
 (If Yes→) Location documented: Yes No (If Yes↓)

Anterior neochord location: A1 Yes No A2 Yes No A3 Yes No

Neochord Location(s): Posterior Neochords: Yes No
 (If Yes→) Location documented: Yes No (If Yes↓)

Posterior Neochord location: P1 Yes No P2 Yes No P3 Yes No

Commissure Neochords: Yes No (If Yes↓)

Commissure Neochord location: Medial (C2) Lateral (C1) Both Not Documented

Chordal/ Leaflet transfer: Yes No (If Yes↓)

Anterior Chordal/Leaflet transfer: Yes No
 (If Yes→) Location documented: Yes No (If Yes↓)

Anterior chordal/leaflet transfer location: A1 Yes No A2 Yes No A3 Yes No

Chordal/ Leaflet Transfer Location(s): Posterior Chordal/Leaflet transfer: Yes No
 (If Yes→) Location documented: Yes No (If Yes↓)

Posterior chordal/leaflet transfer location: P1 Yes No P2 Yes No P3 Yes No

Commissure Chordal/Leaflet transfer: Yes No (If Yes↓)

Commissural chordal/leaflet transfer location: Medial (C2) Lateral (C1) Both Not Documented

Folding Plasty: Yes No
 Sliding Plasty: Yes No
 Annular decalcification/ debridement: Yes No
 Leaflet extension/replacement patch: Yes No
 (If Yes→) Patch Location: Anterior Posterior Both Not Documented

Edge to edge repair: Yes No
 Mitral commissurotomy: Yes No
 Mitral commissuroplasty: Yes No
 Mitral cleft repair: (scallop closure): Yes No
 Mitral paraprosthetic leak repair: Yes No

Replacement (If Replacement ↓)

Mitral repair attempted prior to replacement: Yes No
 Mitral chords preserved: Anterior Posterior Both None
 Transcatheter replacement: Yes No

Implant: Yes No (If Yes)

Implant type: Mechanical valve Bioprosthetic valve Annuloplasty device Mitral Leaflet clip Transcatheter device
 Surgically implanted transcatheter device Other

Implant Model Number: _____ Implant Size: _____

Unique Device identifier (UDI): _____

Tricuspid Valve Procedure Performed: Yes, planned Yes, unplanned due to surgical complication
 Yes, unplanned due to unsuspected disease or anatomy No (If Yes ↓)

Repair: Yes No (If Yes↓)

Annuloplasty Yes No (If Yes↓)

Type of Annuloplasty: Pericardium Suture Prosthetic Ring Prosthetic Band Other

Leaflet Resection: Yes No

Replacement: Yes No (If Yes→) Transcatheter Replacement: Yes No

Valvectomy: Yes No

Implant: Yes No (If Yes ↓)

Implant Type: Mechanical Valve Bioprosthetic Valve Homograft
 Annuloplasty Transcatheter Device Other Device

Implant Model Number: _____ Size: _____

Unique Device Identifier (UDI): _____

Pulmonic Valve Procedure Performed: Yes, planned Yes, unplanned due to surgical complication
 Yes, unplanned due to unsuspected disease or anatomy No (If Yes ↓)

Procedure Performed:

Repair/Leaflet Reconstruction
 Replacement (If Replacement→) Transcatheter Replacement: Yes No
 Valvectomy

Implant: Yes No (If Yes ↓)

Implant Type: Surgeon Fashioned Commercially Supplied
 (If Surgeon Fashioned →) Material: PTFE (Gore-Tex) Pericardium Other
 (If Commercially Supplied →) Device Type: Mechanical Valve Annuloplasty Device
 Bioprosthetic Valve Homograft
 Transcatheter Device Other

Implant Model Number: _____ Size: _____

Unique Device Identifier (UDI): _____

L. Mechanical Cardiac Assist Devices

Intra-Aortic Balloon Pump (IABP): Yes No (If Yes ↓)
 IABP Insertion: Preop Intraop Postop
 Primary Reason for Insertion: Hemodynamic Instability Procedural Support Unstable Angina
 CPB Weaning Failure Prophylactic Other

Catheter Based Assist Device Used: Yes No (If Yes ↓)
 Type: RV LV BiV
 When Inserted: Preop Intraop Postop
 Primary Reason for Insertion: Hemodynamic instability CPB weaning failure PCI failure Procedural support Other

ECMO: Venovenous Venovenous converted to Venovenous No (If Yes ↓)
 ECMO Initiated: Preop Intraop Postop Non-operative
 Clinical Indication for ECMO: Cardiac Failure Respiratory Failure Hypothermia Rescue/salvage Other

L.2 Ventricular Assist Devices

(Use Key to complete table below - will be dropdown lists in software)

Timing: 1. Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure)
 2. Stand-alone VAD procedure
 3. In conjunction with CV surgical procedure (same trip to the OR)- planned
 4. In conjunction with CV surgical procedure (same trip to the OR)- unplanned
 5. Post-Operative (after surgical procedure during reoperation)

Indication: 1. Bridge to Transplantation **Type:** 1. Right VAD (RVAD) **Reason:** 1. Cardiac Transplant
 2. Bridge to Recovery 2. Left VAD (LVAD) 2. Recovery
 3. Destination 3. Biventricular VAD 3. Device Transfer
 4. Post cardiectomy Ventricular Failure (BiVAD) 4. Device-Related Infection
 5. Device Malfunction 4. Total Artificial Heart (TAH) 5. Device Malfunction
 6. End of (device) Life 6. End of (device) Life
 7. Salvage

Device: See VAD list

Was patient admitted with VAD Yes No

(If Yes →) Previous VAD implanted at another facility Yes No
 Insertion date: __/__/____
 Indication:
 Type:

Device Model Number: _____	UDI: _____
Previous VAD Explanted During This Admission:	<input type="checkbox"/> Yes, not during this procedure <input type="checkbox"/> Yes, during this procedure <input type="checkbox"/> No
(If "Yes, not during this procedure" or "Yes, during this procedure" →)	Reason:
(If "Yes, not during this procedure" →)	Date: __/__/____

Ventricular Assist Device Implanted during this hospitalization Yes No
 (If Yes, provide data on up to 3 separate devices implanted ↓)

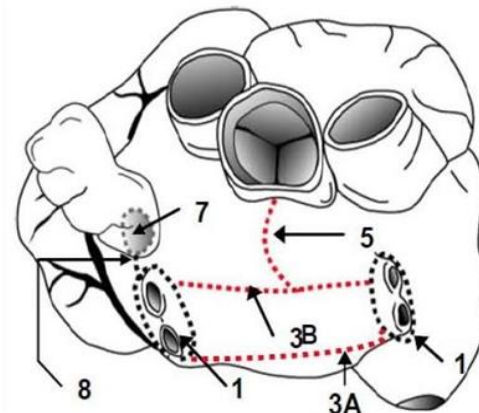
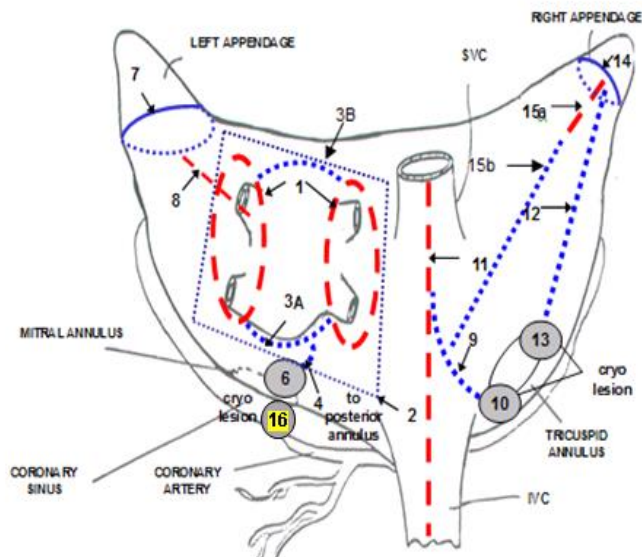
VAD IMPLANT(s)	Initial implant	2nd device implanted? <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	3rd Device implanted? <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)
Timing			
Indication			
Type			
Device			
Implant Date	__/__/____	__/__/____	__/__/____
UDI	_____	_____	_____
VAD was explanted	<input type="checkbox"/> Yes, not during this procedure <input type="checkbox"/> Yes, during this procedure <input type="checkbox"/> No	<input type="checkbox"/> Yes, not during this procedure <input type="checkbox"/> Yes, during this procedure <input type="checkbox"/> No	<input type="checkbox"/> Yes, not during this procedure <input type="checkbox"/> Yes, during this procedure <input type="checkbox"/> No
Reason (If "Yes, not during this procedure" or "Yes, during this procedure" →)			
Date (If "Yes, not during this procedure" →)	__/__/____	__/__/____	__/__/____

M. Other Cardiac Procedures	
<i>(If Other Cardiac Procedure = Yes ↓) See Proc ID Table to determine whether these procedures impact isolate procedure categories</i>	
ASD repair- PFO type <input type="checkbox"/> Yes <input type="checkbox"/> No	Myocardial Stem Cell Therapy: <input type="checkbox"/> Yes <input type="checkbox"/> No
ASD Repair- secundum or sinus venosus <input type="checkbox"/> Yes <input type="checkbox"/> No	Pulmonary Thromboembolectomy: <input type="checkbox"/> Yes, Acute <input type="checkbox"/> Yes, Chronic <input type="checkbox"/> No
AFib Intracardiac lesions (If yes, complete M-1) <input type="checkbox"/> Yes <input type="checkbox"/> No	Subaortic Stenosis Resection: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)
AFib Epicardial lesions (If yes, complete M-1) <input type="checkbox"/> Yes <input type="checkbox"/> No	Type : <input type="checkbox"/> Muscle <input type="checkbox"/> Ring <input type="checkbox"/> Membrane <input type="checkbox"/> Web <input type="checkbox"/> Not Reported
Atrial Appendage procedure: <input type="checkbox"/> RAA <input type="checkbox"/> LAA <input type="checkbox"/> Both <input type="checkbox"/> No (If not No ↓)	Surgical Ventricular Restoration: <input type="checkbox"/> Yes <input type="checkbox"/> No
Indicate method for atrial appendage ligation/exclusion: <input type="checkbox"/> Intra-atrial oversewing <input type="checkbox"/> Epicardial Suture Ligation <input type="checkbox"/> Amputation with oversewing <input type="checkbox"/> Stapler (cutting) <input type="checkbox"/> Stapler (noncutting) <input type="checkbox"/> Epicardially applied occlusion device	
If epicardial applied occlusion device → Model: <input type="checkbox"/> AtriClip <input type="checkbox"/> Lariat <input type="checkbox"/> Other UDI: _____	
Arrhythmia Device: <input type="checkbox"/> Pacemaker <input type="checkbox"/> Pacemaker with CRT <input type="checkbox"/> ICD <input type="checkbox"/> ICD with CRT <input type="checkbox"/> Implantable Recorder <input type="checkbox"/> None	Transmyocardial revascularization (TMR): <input type="checkbox"/> Yes <input type="checkbox"/> No Tumor: <input type="checkbox"/> Myxoma <input type="checkbox"/> Fibroelastoma <input type="checkbox"/> Hypernephroma <input type="checkbox"/> Sarcoma <input type="checkbox"/> Other <input type="checkbox"/> No
Lead Insertion: <input type="checkbox"/> Yes <input type="checkbox"/> No	Transplant, Cardiac : <input type="checkbox"/> Yes <input type="checkbox"/> No
Lead Extraction : <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No	Trauma, Cardiac : <input type="checkbox"/> Yes <input type="checkbox"/> No
Congenital Defect Repair: (If yes, complete M-3) <input type="checkbox"/> Yes <input type="checkbox"/> No	VSD Repair: <input type="checkbox"/> Yes-congenital <input type="checkbox"/> Yes-acquired <input type="checkbox"/> No
LV Aneurysm Repair: <input type="checkbox"/> Yes <input type="checkbox"/> No	Other Cardiac Procedure <input type="checkbox"/> Yes <input type="checkbox"/> No

M.1. Atrial Fibrillation Procedures

(If Other Cardiac Procedure, AFib = Yes ↓)

Lesion location: <input type="checkbox"/> Primarily epicardial <input type="checkbox"/> Primarily Intracardiac
Method of Lesion Creation: (Select all that apply↓)
Radiofrequency <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Bipolar <input type="checkbox"/> Yes <input type="checkbox"/> No
Cut-and-sew <input type="checkbox"/> Yes <input type="checkbox"/> No
Cryo <input type="checkbox"/> Yes <input type="checkbox"/> No
Lesions Documented: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)



Epicardial Left Sided Lesions

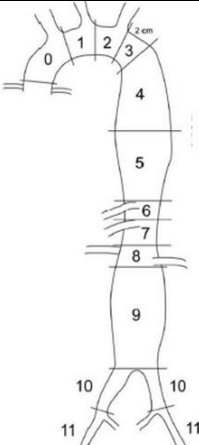
Lesions: (check all that apply ↓)

- | | |
|--|--|
| <input type="checkbox"/> 1 Bilateral Pulmonary Vein Isolation | <input type="checkbox"/> 9 Intercaval Line to Tricuspid Annulus (“T” lesion) |
| <input type="checkbox"/> 2 Box Lesion Only | <input type="checkbox"/> 10 Tricuspid Cryo Lesion, Medial |
| <input type="checkbox"/> 3a Inferior Pulmonary Vein Connecting Lesion | <input type="checkbox"/> 11 Intercaval Line (SVC and IVC) |
| <input type="checkbox"/> 3b Superior Pulmonary Vein Connecting Lesion | <input type="checkbox"/> 12 Tricuspid Annular Line to RAA |
| <input type="checkbox"/> 4 Posterior Mitral Annular Line Lesion | <input type="checkbox"/> 13 Tricuspid Cryo Lesion |
| <input type="checkbox"/> 5 Pulmonary Vein Connecting Lesion to Anterior Mitral Annulus | <input type="checkbox"/> 14 RAA Ligation/Removal/Obliteration |
| <input type="checkbox"/> 6 Mitral Valve Annular Lesion | <input type="checkbox"/> 15a RAA Lateral Wall (Short) |
| <input type="checkbox"/> 7 LAA /Removal/Obliteration | <input type="checkbox"/> 15b RAA Lateral Wall to “T” Lesion |
| <input type="checkbox"/> 8 Pulmonary Vein to LAA Lesion | <input type="checkbox"/> 16 Coronary Sinus Lesion |

M.2. Aorta And Aortic Root Procedures				
Family history of disease of aorta: <input type="checkbox"/> Aneurysm <input type="checkbox"/> Dissection <input type="checkbox"/> Both Aneurysm and Dissection <input type="checkbox"/> Sudden Death <input type="checkbox"/> None <input type="checkbox"/> Unknown				
Patient's genetic history: <input type="checkbox"/> Marfan <input type="checkbox"/> Ehlers-Danlos <input type="checkbox"/> Loeys-Dietz <input type="checkbox"/> Non-Specific familial thoracic aortic syndrome <input type="checkbox"/> Bicuspid AV <input type="checkbox"/> Turner syndrome <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Unknown				
Prior aortic intervention: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes ↓)				
Location	Previous repair location(s)	Repair Type	Repair failure (If Yes ↓)	Disease progression (If Yes ↓)
	Select all that apply	Select all that apply	Select all that apply	Select all that apply
Root	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Ascending	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Arch	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Descending	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Suprarenal abdominal	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Infrarenal abdominal	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Open <input type="checkbox"/> Endovascular <input type="checkbox"/> Hybrid	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Endoleak: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes, select all ↓)				
<input type="checkbox"/> Type I: leak at graft attachment site: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Type I location: <input type="checkbox"/> Ia-proximal <input type="checkbox"/> Ib -distal <input type="checkbox"/> Ic- iliac occluder				
<input type="checkbox"/> Type II: aneurysm sac filling via branch vessel: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Number of vessels: <input type="checkbox"/> IIa: single vessel <input type="checkbox"/> IIb: two vessels or more				
<input type="checkbox"/> Type III: leak through defect in graft: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Graft defect type: <input type="checkbox"/> IIIa: junctional separation of modular components <input type="checkbox"/> IIIb: endograft fractures or holes				
<input type="checkbox"/> Type IV: leak through graft fabric – porosity: <input type="checkbox"/> Yes <input type="checkbox"/> No				
<input type="checkbox"/> Type V: endotension - expansion aneurysm sac without leak: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Infection: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Aorta Infection Type: <input type="checkbox"/> Graft infection <input type="checkbox"/> Valvular endocarditis <input type="checkbox"/> Nonvalvular endocarditis <input type="checkbox"/> Native aorta <input type="checkbox"/> Multiple infection types				
Trauma: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Location: Select all that apply				
	Root	<input type="checkbox"/> Yes <input type="checkbox"/> No	Descending	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Ascending	<input type="checkbox"/> Yes <input type="checkbox"/> No	Abdominal	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Arch	<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No
Presentation: <input type="checkbox"/> Pain <input type="checkbox"/> CHF <input type="checkbox"/> Cardiac Arrest <input type="checkbox"/> Syncope <input type="checkbox"/> Stroke <input type="checkbox"/> Limb numbness <input type="checkbox"/> Paralysis <input type="checkbox"/> Fatigue <input type="checkbox"/> Infection <input type="checkbox"/> Weakness <input type="checkbox"/> Hoarseness (vocal cord dysfunction) <input type="checkbox"/> Asymptomatic				
Primary Indication: <input type="checkbox"/> Aneurysm <input type="checkbox"/> Dissection <input type="checkbox"/> Valvular Dysfunction <input type="checkbox"/> Obstruction <input type="checkbox"/> Intramural Hematoma <input type="checkbox"/> Infection <input type="checkbox"/> Stenosis <input type="checkbox"/> Coarctation				
(if Aneurysm →)	Etiology:	<input type="checkbox"/> Atherosclerosis <input type="checkbox"/> Infection <input type="checkbox"/> Inflammatory <input type="checkbox"/> Connective Tissue Disorder <input type="checkbox"/> Penetrating Ulcer <input type="checkbox"/> Pseudoaneurysm <input type="checkbox"/> Mycotic <input type="checkbox"/> Traumatic transection <input type="checkbox"/> Intercostal visceral patch <input type="checkbox"/> Anastomotic site <input type="checkbox"/> Unknown		
	Type:	<input type="checkbox"/> Fusiform <input type="checkbox"/> Saccular <input type="checkbox"/> Unknown		
	Rupture:	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Contained rupture: <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Location:	<input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11		
(if Dissection →)	Timing:	<input type="checkbox"/> Hyperacute (<48 hrs) <input type="checkbox"/> Acute (48hrs-2weeks) <input type="checkbox"/> Subacute (>2weeks -90 days) <input type="checkbox"/> Chronic (>90 days) <input type="checkbox"/> Acute on Chronic <input type="checkbox"/> Unknown		
	Dissection onset date known	<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Date of onset: _/_/_-_-_-_-		
	Primary tear location:	<input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11		
	Secondary tear location:	<input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11		
	Retrograde extension:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes ↓)		
	Retrograde Location:	<input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4		
	Post TEVAR:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Distal extension:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes ↓)		
	Distal Extension Location:	<input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11		
	Malperfusion:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes ↓ select all that apply)		
	Coronary	<input type="checkbox"/> Yes <input type="checkbox"/> No	Superior Mesenteric	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Right Subclavian	<input type="checkbox"/> Yes <input type="checkbox"/> No	Renal, left	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Right Common Carotid	<input type="checkbox"/> Yes <input type="checkbox"/> No	Renal, right	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Left Common Carotid	<input type="checkbox"/> Yes <input type="checkbox"/> No	Iliofemoral	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Left Subclavian	<input type="checkbox"/> Yes <input type="checkbox"/> No	Spinal	<input type="checkbox"/> Yes <input type="checkbox"/> No

	Celiac <input type="checkbox"/> Yes <input type="checkbox"/> No
	Lower Extremity Motor Function: <input type="checkbox"/> No deficit <input type="checkbox"/> Weakness <input type="checkbox"/> Paralysis <input type="checkbox"/> Unknown
	Lower Extremity Sensory Deficit: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
	Rupture: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)
	Contained rupture: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Rupture Location: <input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11
Root	Aorto-annular ectasia: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Asymmetric Root Dilation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) Dilation Location <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Non-coronary Sinus of Valsalva aneurysm: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (If Yes →) SV Aneurysm Location: <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Non-coronary
Arch	Arch Type : <input type="checkbox"/> Left <input type="checkbox"/> Right Aberrant Left Subclavian: <input type="checkbox"/> Yes <input type="checkbox"/> No Aberrant Right Subclavian : <input type="checkbox"/> Yes <input type="checkbox"/> No Bovine: <input type="checkbox"/> Yes <input type="checkbox"/> No Kommerell : Patent internal mammary artery bypass graft: Variant vertebral origin: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
Ascending	Asymmetric Dilatation: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Proximal coronary bypass grafts: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
3-D reconstruction aortic diameter measurements available: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓ indicate maximal diameter for each zone in mm)	
Annulus	_____mm Zone 2 _____mm Zone 8 _____mm
Sinus segment	_____mm Zone 3 _____mm Zone 9 _____mm
Sinotubular junction	_____mm Zone 4 _____mm Zone 10 _____mm
Mid-ascending	_____mm Zone 5 _____mm Zone 11 _____mm
Distal Ascending	_____mm Zone 6 _____mm
Zone 1	_____mm Zone 7 _____mm
Largest (pre-operative) diameter of treated segment(s)	
Annulus	_____mm Zone 2 _____mm Zone 8 _____mm
Sinus segment	_____mm Zone 3 _____mm Zone 9 _____mm
Sinotubular junction	_____mm Zone 4 _____mm Zone 10 _____mm
Mid-ascending	_____mm Zone 5 _____mm Zone 11 _____mm
Distal Ascending	_____mm Zone 6 _____mm
Zone 1	_____mm Zone 7 _____mm
Intervention	
Planned Staged Hybrid: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Open Arch Procedure: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Distal Technique: <input type="checkbox"/> Open <input type="checkbox"/> Clamped	
Distal Site: <input type="checkbox"/> Ascending Aorta <input type="checkbox"/> Hemiarch <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4	
Distal Extention: <input type="checkbox"/> Elephant trunk <input type="checkbox"/> Frozen Elephant trunk <input type="checkbox"/> No	
Arch Branch Reimplantation: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Innominate: <input type="checkbox"/> Yes <input type="checkbox"/> No Right Subclavian: <input type="checkbox"/> Yes <input type="checkbox"/> No Right Common Carotid: <input type="checkbox"/> Yes <input type="checkbox"/> No Left Common	
Carotid: <input type="checkbox"/> Yes <input type="checkbox"/> No Left Subclavian: <input type="checkbox"/> Yes <input type="checkbox"/> No Left Vertebral: <input type="checkbox"/> Yes <input type="checkbox"/> No Other: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Open Descending Thoracic Aorta or Thoracoabdominal Procedure: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Proximal Location: <input type="checkbox"/> Reverse Hemiarch <input type="checkbox"/> Zone 0 <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9	
Intercostal Reimplantation: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Distal Location: <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Visceral vessel intervention: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Celiac: <input type="checkbox"/> Reimplantation <input type="checkbox"/> Branch Graft <input type="checkbox"/> None	
Superior mesenteric: <input type="checkbox"/> Reimplantation <input type="checkbox"/> Branch Graft <input type="checkbox"/> None	
Right Renal: <input type="checkbox"/> Reimplantation <input type="checkbox"/> Branch Graft <input type="checkbox"/> None	

Left Renal: <input type="checkbox"/> Reimplantation <input type="checkbox"/> Branch Graft <input type="checkbox"/> None	
Endovascular Procedure(s) : <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Access: <input type="checkbox"/> Femoral <input type="checkbox"/> Iliac <input type="checkbox"/> Abdominal Aorta <input type="checkbox"/> Lt. Subclavian <input type="checkbox"/> Rt. Subclavian <input type="checkbox"/> Ascending Aorta <input type="checkbox"/> LV Apex	
Percutaneous Access: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Proximal landing zone: <input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Distal landing zone: <input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending to distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
TAVR (for combination procedures): <input type="checkbox"/> Yes <input type="checkbox"/> No	
Ascending TEVAR : <input type="checkbox"/> Dedicated IDE <input type="checkbox"/> Off Label Stent <input type="checkbox"/> No	
Arch Vessel management	
Innominate: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta-Innominate <input type="checkbox"/> Yes <input type="checkbox"/> No Aorta-right carotid <input type="checkbox"/> Yes <input type="checkbox"/> No Aorta- right subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Right Carotid- Right subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Left Carotid: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- left carotid <input type="checkbox"/> Yes <input type="checkbox"/> No Innominate- left carotid <input type="checkbox"/> Yes <input type="checkbox"/> No Right carotid- Left carotid <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Left Subclavian: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- left subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Left carotid- left subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Other Arch Vessel(s) Extra-anatomic bypass: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓) Innominate – carotid <input type="checkbox"/> Yes <input type="checkbox"/> No Innominate- subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Subclavian-subclavian <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Visceral Vessel management	
Celiac: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- celiac <input type="checkbox"/> Yes <input type="checkbox"/> No Iliac-celiac <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Superior mesenteric: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- superior mesenteric <input type="checkbox"/> Yes <input type="checkbox"/> No Iliac- superior mesenteric <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Right renal: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- right renal <input type="checkbox"/> Yes <input type="checkbox"/> No Iliac- right renal <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Left renal: <input type="checkbox"/> Native Flow <input type="checkbox"/> Endovascular Branch Graft <input type="checkbox"/> Endovascular Parallel Graft <input type="checkbox"/> Extra-anatomic Bypass <input type="checkbox"/> Fenestrated (If Extra-anatomic bypass→) Aorta- left renal <input type="checkbox"/> Yes <input type="checkbox"/> No Iliac – left renal <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Right Iliac: <input type="checkbox"/> Native Flow <input type="checkbox"/> Bifurcated Graft <input type="checkbox"/> Extra-anatomic Bypass (If Extra-anatomic bypass→) Femoral- Femoral <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Left Iliac: <input type="checkbox"/> Native Flow <input type="checkbox"/> Bifurcated Graft <input type="checkbox"/> Extra-anatomic Bypass (If Extra-anatomic bypass→) Femoral- Femoral <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Internal Iliac Preserved: <input type="checkbox"/> Right Iliac only <input type="checkbox"/> Left Iliac only <input type="checkbox"/> Both <input type="checkbox"/> No	
Other Visceral Vessel(s) Extra-anatomic Bypass: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓) Aorta-other <input type="checkbox"/> Yes <input type="checkbox"/> No Iliac-other <input type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> Yes <input type="checkbox"/> No	
Dissection proximal entry tear covered: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Endoleak at end of procedure: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓) Type: <input type="checkbox"/> Ia <input type="checkbox"/> Ib <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V	
Conversion to open: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Conversion reason: <input type="checkbox"/> Deployment failure <input type="checkbox"/> Endoleak <input type="checkbox"/> Rupture <input type="checkbox"/> Occlusion/loss of branch	
Intraop Dissection Extension: <input type="checkbox"/> None <input type="checkbox"/> Antegrade <input type="checkbox"/> Retrograde <input type="checkbox"/> Both	
Unintentional rupture of dissection septum: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) <input type="checkbox"/> Below STJ <input type="checkbox"/> STJ-midascending <input type="checkbox"/> Midascending-distal ascending <input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 3 <input type="checkbox"/> Zone 4 <input type="checkbox"/> Zone 5 <input type="checkbox"/> Zone 6 <input type="checkbox"/> Zone 7 <input type="checkbox"/> Zone 8 <input type="checkbox"/> Zone 9 <input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Spinal Drain Placement: <input type="checkbox"/> Pre- aortic procedure <input type="checkbox"/> Post- aortic procedure <input type="checkbox"/> None	
IntraOp Motor Evoked Potential: <input type="checkbox"/> Yes <input type="checkbox"/> No	(If Yes →) Documented MEP abnormality <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
IntraOp Somatosensory Evoked Potential: <input type="checkbox"/> Yes <input type="checkbox"/> No	(If Yes →) Documented SEP abnormality <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
IntraOp EEG: <input type="checkbox"/> Yes <input type="checkbox"/> No	(If Yes →) Documented EEG abnormality <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
IntraOp Intravascular Ultrasound(IVUS): <input type="checkbox"/> Yes <input type="checkbox"/> No	IntraOp Transcutaneous Doppler: <input type="checkbox"/> Yes <input type="checkbox"/> No

Intraoperative Angiogram: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →)		Volume of contrast: _____ml		Fluoroscopy time: _____ min	
Devices					
Device(s) Inserted: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, list proximal to distal using device key ↓)					
Location :				X. No additional devices inserted (only for locations 2 – 15) A. Below sinotubular junction B. Sinotubular junction to mid ascending C. Mid ascending to distal ascending D. Zone 1 (between innominate and left carotid) E. Zone 2 (between left carotid and left subclavian) F. Zone 3 (first 2 cm. distal to left subclavian) G. Zone 4 (end of zone 3 to mid descending aorta ~ T6) H. Zone 5 (mid descending aorta to celiac) I. Zone 6 (celiac to superior mesenteric) J. Zone 7 (superior mesenteric to renals) K. Zone 8 (renal to infra-renal abdominal aorta) L. Zone 9 (infrarenal abdominal aorta) M. Zone 10 (common iliac) N. Zone 11 (external iliacs)	
Delivery Method:		1=Open 2= Endovascular			
Outcome:		1= Maldeployed 2= Deployed and removed 3= Successfully deployed			
Model Number:		Enter device model number			
UDI:		Enter unique device identifier (not serial number)			
Location (Letter)	Delivery Method	Outcome	Model #	UDI	

M.3. Congenital Defect Repair (other than ASD, VSD or Bicuspid valve)	
Congenital Diagnoses: Select up to three most significant diagnoses: (refer to “Congenital Diagnoses/Procedures List” document) Diagnosis 1: _____ (If not “No additional congenital diagnoses”→) Diagnosis 2: _____ (If not “No additional congenital diagnoses”→) Diagnosis 3: _____	
Congenital Procedures: Select up to three most significant: (refer to “Congenital Diagnoses/Procedures List” document) Procedure 1: _____ (If not “No additional congenital procedures”→) Procedure 2: _____ (If not “No additional congenital procedures”→) Procedure 3: _____	

N. Other Non-Cardiac Procedures (If Other Non-Cardiac Procedure = Yes ↓)	
Carotid Endarterectomy: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No	
Other Vascular: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No	
Other Thoracic: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No	
Other: <input type="checkbox"/> Yes, planned <input type="checkbox"/> Yes, unplanned due to surgical complication <input type="checkbox"/> Yes, unplanned due to unsuspected disease or anatomy <input type="checkbox"/> No	

O. Post-Operative	
Peak Glucose within 18-24 hours of anesthesia end time: _____	
Postoperative Creatinine Level: _____ Discharge Hemoglobin: _____ Discharge Hematocrit: _____	
Blood Products Used Postoperatively: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Red Blood Cell Units: _____ Fresh Frozen Plasma Units: _____ Cryoprecipitate Units: _____ Platelet Units: _____	
Extubated in OR: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Re-intubated /or intubated Post Op During Hospital Stay: <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes →) Additional Hours Ventilated: _____	
Total post-operative ventilation hours _____ (System Calculation)	
ICU Visit: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Initial ICU Hours: _____	
Readmission to ICU: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →) Additional ICU Hours: _____	
Post Op Echo Performed to evaluate valve(s): <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓)	
Level aortic insufficiency found: <input type="checkbox"/> None <input type="checkbox"/> Trivial/Trace <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Not Documented	
Aortic Paravalvular leak: <input type="checkbox"/> None <input type="checkbox"/> Trivial/Trace <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Not Documented	
Level mitral insufficiency found: <input type="checkbox"/> None <input type="checkbox"/> Trivial/Trace <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Not Documented	

Mitral Paravalvular leak:
 None Trivial/Trace Mild Moderate Severe Not Documented
 Level tricuspid insufficiency found: None Trivial/Trace Mild Moderate Severe Not Documented
 Level pulmonic insufficiency found: None Trivial/Trace Mild Moderate Severe Not Documented

Post Op Ejection Fraction: Yes No (If Yes →) Post Op Ejection Fraction: _____ (%)

Cardiac Enzymes (biomarkers) Drawn: Yes No (If Yes →) Peak CKMB: _____ Peak Troponin I _____ Peak Troponin T _____

12-Lead EKG Findings:
 Not performed No ischemic changes New ST changes New Pathological Q-wave or LBBB
 New RBBB New AV Conduction Block New STEMI Other NA (no pre-op EKG for comparison, transplant)

P. Postoperative Events

Surgical Site Infection within 30 days of operation: Yes No (If Yes ↓)
 Sternal Superficial Wound Infection: Yes, within 30 days of procedure Yes, >30 days after procedure but during hosp. for surgery No
 Deep Sternal Infection/ Mediastinitis: Yes, within 30 days of procedure Yes, >30 days after procedure but during hosp. for surgery No
 (If either Yes value →) Diagnosis Date: ___/___/___ (mm/dd/yyyy)
 Thoracotomy: Yes, within 30 days of procedure Yes, >30 days after procedure but during hosp. for surgery No
 Conduit Harvest : Yes, within 30 days of procedure Yes, >30 days after procedure but during hosp. for surgery No
 Cannulation Site: Yes, within 30 days of procedure Yes, >30 days after procedure but during hosp. for surgery No
 Wound Intervention/Procedure: Yes No (If Yes ↓)
 Wound Intervention – Open with Packing/Irrigation: Yes, primary incision Yes, secondary incision Both No
 Wound Intervention – Wound Vac: Yes, primary incision Yes, secondary incision Both No
 Secondary Procedure Muscle Flap: Yes, primary incision Yes, secondary incision Both No
 Secondary Procedure Omental Flap: Yes No

Other In Hospital Postoperative Event Occurred: Yes No (If Yes ↓)
Operative
 ReOp for Bleeding /Tamponade: Yes No (If Yes →) Bleed Timing: Acute Late
 ReOp for Valvular Dysfunction: Yes, surgical Yes, transcatheter No
 Reintervention for Myocardial Ischemia: Yes No
 (If Yes →) Vessel: Native coronary Graft Both Intervention Type: Surgery PCI Both
 Aortic Reintervention: Yes No (if yes→) Type: Open Endovascular
 ReOp for Other Cardiac Reasons: Yes No
 Returned to the OR for Other Non-Cardiac Reasons: Yes No
 Open chest with planned delayed sternal closure: Yes No
 Sternotomy Issue: Yes No (If Yes →) Sternal instability/dehiscence (sterile): Yes No

Infection
 Sepsis: Yes No (If Yes →) Positive Blood Cultures: Yes No

Neurologic, Central
 Postoperative Stroke: Yes, hemorrhagic Yes, ischemic Yes, undetermined type No
 Transient Ischemic Attack (TIA): Yes No
 Encephalopathy: None Anoxic Drug Metabolic Mixed Unknown
 Coma/unresponsive state (not stroke): Yes No
Neurologic, Peripheral
 Lower Extremity Paralysis: Yes No (If Yes →) Paralysis Type: Transient Permanent Paresis: Yes No (If Yes →) Paresis Type:
 Transient Permanent
 Phrenic Nerve Injury: Yes No
 Recurrent Laryngeal Nerve Injury: Yes No

Pulmonary
 Prolonged Ventilation: Yes No (OR exit time until initial extubation, plus any additional reintubation hours)
 Pneumonia: Yes No
 Venous Thromboembolism – VTE: Yes No (If Yes ↓)
 Pulmonary Thromboembolism: Yes No
 Deep Venous Thrombosis: Yes No
 Pleural Effusion Requiring Drainage: Yes No
 Pneumothorax Requiring Intervention: Yes No

Renal
 Renal Failure: Yes No
 Dialysis (Newly Required): Yes No (If Yes →) Required after Hospital Discharge: Yes No
 Duration: Temporary Permanent Unknown
 Ultra-Filtration Required: Yes No

Vascular
 Iliac/Femoral Dissection: Yes No

Acute Limb Ischemia: Yes No

Mechanical assist device related complication : Yes No (If Yes ↓)
 Cannula/Insertion site issue Yes No
 Hemorrhagic: Yes No
 Thrombotic/Embolic: Yes No
 Hemolytic: Yes No
 Infection: Yes No

Other mechanical assist device related complication: Yes No

Other

Rhythm Disturbance Requiring Permanent Device: Pacemaker ICD Pacemaker/ICD Other None

Cardiac Arrest: Yes No

Post Op Aortic Endoleak: Yes No (if yes→) Type: Ia Ib II III IV V

Aortic Rupture: Yes No

Aortic Dissection: Yes No (if yes→) Type: Antegrade Retrograde Both

Aortic Side Branch malperfusion: Yes No

Aortic stent graft induced entry tear: Yes No

Anticoagulant Event: Yes No

Pericardiocentesis: Yes No

Gastro-Intestinal Event: Yes No

Liver Dysfunction/ Failure: Yes No

Multi-System Failure: Yes No

Atrial Fibrillation: Yes No

Other: Yes No

Q. Discharge / Mortality

Date of Last Follow-up: ___/___/___ (mm/dd/yyyy)

Status at 30 days After Surgery: Alive Dead Unknown

Primary method used to verify 30-day status:

<input type="checkbox"/> Phone call to patient or family	<input type="checkbox"/> Office visit >= 30 days after procedure
<input type="checkbox"/> Letter from medical provider	<input type="checkbox"/> Social Security Death Master File /NDI
<input type="checkbox"/> Medical record (evidence of life or death)	<input type="checkbox"/> Other

Discharge/Mortality status: In hospital, alive Discharged alive, last known status = alive
 Died in hospital Discharged alive, died after discharge

If Discharge/Mortality Status = "Discharged alive, last know status=alive" or "Discharged alive, died after discharge" ↓)

Discharge Date ___/___/___ (mm/dd/yyyy)

Discharge Location: Home Extended Care/Transitional Care Unit/Rehab Other Acute Care Hospital
 Nursing Home Hospice Left AMA Other

Cardiac Rehabilitation Referral: Yes No Not Applicable

Smoking Cessation Counseling: Yes No Not Applicable

Medications Prescribed at Discharge

Antiplatelet	Aspirin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	ADP Inhibitor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Other Antiplatelet	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
Anticoagulant	Thrombin Inhibitors	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Warfarin (Coumadin)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Factor Xa inhibitors	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Novel Oral Anticoagulant	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
	Other Anticoagulant	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated
ACE or ARB	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated	<input type="checkbox"/> Not Indicated (no CHF or EF > 40%)
Amiodarone	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated	
Beta Blocker	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated	
Lipid Lowering - Statin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated	
Lipid Lowering - Other	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Contraindicated	

If Discharge/Mortality Status = "Died in hospital" or "Discharged alive, died after discharge" ↓)

Mortality - Date ___/___/___ (mm/dd/yyyy)

Primary Cause of Death (select only one) Cardiac Neurologic Renal Vascular Infection Pulmonary Unknown Other

(If Discharge/Mortality Status = "Died in hospital" ↓)

In-Hospital death location: OR During Initial Surgery OR during reoperation In Hospital (Other than OR)

(If Discharge/Mortality Status = "Discharged alive, died after discharge" ↓)

Operative Death: Yes No

Post Discharge death location: Home Extended Care Facility Hospice Acute Rehabilitation Hospital during readmission
 Other Unknown

R. Readmission

(If Discharge/Mortality Status = "Discharged alive, last know status=alive" or "Discharged alive, died after discharge" ↓)

Readmit : Yes No Unknown (If Yes ↓)

Readmit Date: ___/___/___ (mm/dd/yyyy)

Readmit Primary Reason:

<input type="checkbox"/> Angina	<input type="checkbox"/> Pericardial Effusion and/or Tamponade
<input type="checkbox"/> Anticoagulation Complication - Pharmacological	<input type="checkbox"/> Pericarditis/Post Cardiotomy Syndrome
<input type="checkbox"/> Anticoagulation Complication – Valvular	<input type="checkbox"/> Pleural effusion requiring intervention
<input type="checkbox"/> Aortic Complication	<input type="checkbox"/> Pneumonia
<input type="checkbox"/> Arrhythmia or Heart Block	<input type="checkbox"/> Renal Failure
<input type="checkbox"/> Blood Pressure (hyper or hypotension)	<input type="checkbox"/> Renal Insufficiency
<input type="checkbox"/> Chest pain, noncardiac	<input type="checkbox"/> Respiratory complication, Other

- Congestive Heart Failure
- Coronary Artery/Graft Dysfunction
- Depression/psychiatric issue
- DVT
- Electrolyte imbalance
- Endocarditis
- Failure to thrive
- GI issue
- Infection, Conduit Harvest Site
- Infection, Deep Sternum / Mediastinitis
- Mental status changes
- Myocardial Infarction
- PE

- Sepsis
- Stroke
- TIA
- Transfusion
- Transplant Rejection
- VAD Complication
- Valve Dysfunction
- Vascular Complication, acute
- Wound , other (drainage, cellulitis)
- Other – Related Readmission
- Other – Nonrelated Readmission
- Other – Planned Readmission
- Unknown

Readmit Primary Procedure:

- No Procedure Performed
- Cath lab for Valve Intervention
- Cath lab for Coronary Intervention (PCI)
- Dialysis
- OR for Bleeding
- OR for Coronary Artery Intervention
- OR for Sternal Debridement / Muscle Flap
- OR for Valve Intervention

- OR for Vascular Procedure
- OR for Aorta Intervention
- Pacemaker Insertion / AICD
- Pericardiectomy / Pericardiocentesis
- Planned noncardiac procedure
- Thoracentesis/ Chest tube insertion
- Wound vac
- Other Procedure
- Unknown

(if OR for Aorta intervention→)

Type: Open Endovascular

Indication: Rupture Endoleak Infection Dissection Expansion Loss of side branch patency Other

Adult Cardiac Anesthesiology

(for sites participating in the optional anesthesiology component)

Primary Anesthesiologist Name: _____		Primary Anesthesiologist National Provider Number: _____	
Anesthesiology Care Team Model:			
<input type="checkbox"/> Anesthesiologist working alone <input type="checkbox"/> Attending anesthesiologist teaching/medically directing fellow <input type="checkbox"/> Attending anesthesiologist teaching/medically directing house staff <input type="checkbox"/> Attending anesthesiologist medically directing CRNA (1:4 ratio or less) <input type="checkbox"/> Attending anesthesiologist medically directing CRNA (1:5 ratio or greater) <input type="checkbox"/> Surgeon medically directing CRNA <input type="checkbox"/> CRNA practicing independently			
Pain Score Baseline:			
<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> Not Recorded			
Algorithm to Guide Transfusion:		Cell Saver Volume: _____	
<input type="checkbox"/> Yes, SCA/STS algorithm used <input type="checkbox"/> Yes, other algorithm used <input type="checkbox"/> No Algorithm used			
Heparin Total Dose: _____		(If TotHep > 0 →) Heparin Management:	
		<input type="checkbox"/> Heparin titration based on activated clotting time (ACT) <input type="checkbox"/> Heparin titration based on heparin concentration (e.g. Hepcon system) <input type="checkbox"/> Other method	
Protamine Total Dose: _____		Antithrombin III Total Dose: _____	Viscoelastic Testing Used Intraop: <input type="checkbox"/> Yes <input type="checkbox"/> No
Volatile Agent Used: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If Yes →) Volatile Agent(s) used:			
		Isoflurane <input type="checkbox"/> Yes <input type="checkbox"/> No	Desflurane <input type="checkbox"/> Yes <input type="checkbox"/> No
		Sevoflurane <input type="checkbox"/> Yes <input type="checkbox"/> No	Other <input type="checkbox"/> Yes <input type="checkbox"/> No
Volatile Agent(s) timing:		Pre CPB <input type="checkbox"/> Yes <input type="checkbox"/> No	During CPB <input type="checkbox"/> Yes <input type="checkbox"/> No
		Post CPB <input type="checkbox"/> Yes <input type="checkbox"/> No	Maintenance (if no CPB) <input type="checkbox"/> Yes <input type="checkbox"/> No
Intraop Infusion Dexmedetomidine: <input type="checkbox"/> Yes <input type="checkbox"/> No	Intraop Infusion Propofol: <input type="checkbox"/> Yes <input type="checkbox"/> No	Intraop Mgs Midazolam: _____	Intraop Insulin Total Dose: _____
Pre Induction Systolic BP: _____		Pre Induction Diastolic BP: _____	Pre Induction Mean BP: _____
Pre Induction Heart Rate: _____		Pulmonary Artery Catheter Used: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Core Temperature Source:		Core Temp Max: _____	
<input type="checkbox"/> Esophageal <input type="checkbox"/> Nasopharyngeal <input type="checkbox"/> Tympanic <input type="checkbox"/> Bladder <input type="checkbox"/> PA Catheter Thermistor <input type="checkbox"/> Rectal			
Intra Op Nitric Oxide: <input type="checkbox"/> Yes <input type="checkbox"/> No	Anesth. Total Crystalloid: _____		Anesth. Synthetic Colloid: _____
Anesthesiology Total Albumin: _____		Intraop Glucose Trough: _____	
Intraop Vasodilators Used: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Intraoperative Processed EEG (BIS): <input type="checkbox"/> Yes <input type="checkbox"/> No			
Intraop Transesophageal Echo (TEE): <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If Pre Proc TEE is Yes →)	Pre-procedure LVEF Measured: <input type="checkbox"/> Yes <input type="checkbox"/> No (if Yes →)	LVEF: _____	
	Pre-procedure RV Function:	<input type="checkbox"/> Normal	<input type="checkbox"/> Moderate Dysfunction
		<input type="checkbox"/> Mild Dysfunction	<input type="checkbox"/> Severe Dysfunction
	Mitral Regurgitation:	<input type="checkbox"/> None	<input type="checkbox"/> Severe
		<input type="checkbox"/> Trace/trivial	<input type="checkbox"/> Moderate
	Mitral Stenosis:	<input type="checkbox"/> None	<input type="checkbox"/> Not Assessed
		<input type="checkbox"/> Mild	<input type="checkbox"/> Severe
	Aortic Regurgitation:	<input type="checkbox"/> None	<input type="checkbox"/> Severe
		<input type="checkbox"/> Trace/trivial	<input type="checkbox"/> Moderate
	Aortic Stenosis:	<input type="checkbox"/> None	<input type="checkbox"/> Not Assessed
		<input type="checkbox"/> Mild	<input type="checkbox"/> Severe
	Aortic Valve Area Assessed: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes →)	Aortic Valve Area: _____	
	Tricuspid Regurgitation: <input type="checkbox"/> None	<input type="checkbox"/> Mild	<input type="checkbox"/> Severe

	<input type="checkbox"/> Trace/trivial	<input type="checkbox"/> Moderate	<input type="checkbox"/> Not assessed
Patent Foramen Ovale:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not assessed
Ascending Aorta Assessed	<input type="checkbox"/> Yes <input type="checkbox"/> No		
(If Yes→)	Maximal Ascending Aorta Diameter:	_____	
	Maximal Ascending Aorta Atheroma Thickness:	_____	
	Ascending Aorta Atheroma Mobility:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Aortic Arch Visualized:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
(If Yes→)	Maximal Aortic Arch Atheroma Thickness:	_____	
	Aortic Arch Atheroma Mobility:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Cardiopulmonary Bypass Used: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If CPB Use is Yes→)	Retrograde Autologous Priming of CPB Circuit:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Total Crystalloid Administered by Perfusion Team:	_____	
	Total Synthetic Colloid Administered by Perfusion Team:	_____	
	Total Albumin Administered by Perfusion Team:	_____	
	Hemofiltration Volume Removed by Perfusion Team:	_____	
	Inotropes used to wean from CPB:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Vasopressors used to wean from CPB:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Post-Procedure Use Of Intraoperative TEE: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If Post Proc TEE is Yes→)	Systolic Anterior Motion of Mitral Valve:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not assessed
	Return to CPB for Echo Related Diagnosis:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Post-Procedure LVEF Measured:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Post-Procedure LVEF:	_____	
	Post-Procedure RV Function:	<input type="checkbox"/> Normal	<input type="checkbox"/> Moderate Dysfunction <input type="checkbox"/> Not Assessed
		<input type="checkbox"/> Mild Dysfunction	<input type="checkbox"/> Severe Dysfunction
Intraoperative cardiac arrest related to anesthesia care: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Patient Died in the OR: <input type="checkbox"/> Yes <input type="checkbox"/> No			
(If OR Death is No→)	Core Temp Measured upon Entry to ICU/PACU:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Post Op Core Temp:	_____	
	Post-Op INR Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	INR:	_____	
	WBC Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	WBC :	_____	
	Platelets Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Platelet Count:	_____	
	Hematocrit Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Hematocrit:	_____	
	Fibrinogen Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Fibrinogen	_____	
	Lactate Measured upon admission to post op care location (PACU, ICU):	<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes→)	Lactate:	_____	
	Post Op Dexmedetomidine:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Post Op Propofol:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Post Op Delirium:	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Post Op Heparin Induced Thrombocytopenia: <input type="checkbox"/> Yes <input type="checkbox"/> No												
Pain Score POD #3:												
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> Not recorded	<input type="checkbox"/> NA
Pain Score Discharge:												
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> Not recorded	<input type="checkbox"/> NA